REFERENCES 87

[140] H. Ye, M. Martinez, X. Luo, T. Zhang, and M. Monperrus, "SelfAPR: Self-supervised Program Repair with Test Execution Diagnostics," in 37th IEEE/ACM International Conference on Automated Software Engineering, ASE 2022, Rochester, MI, USA, October 10-14, 2022, pp. 92:1–92:13, ACM, 2022.

[141] W. Zhang, S. Guo, H. Zhang, Y. Sui, Y. Xue, and Y. Xu, "Challenging Machine Learning-based Clone Detectors via Semantic-preserving Code Transformations," *IEEE Trans. Software Eng.*, vol. 49, no. 5, pp. 3052–3070, 2023.

${f Part~II}$ Included papers